

IN THE CLAIMS:

1-27. (Canceled)

- 28. (Currently Amended)** An X-ray system including an X-ray emitter and an X-ray-sensitive camera for the creation of dental X-ray images, said camera including a first and a second image detector, said first image detector being provided for the creation of a panoramic tomographic image of upper and lower jawbones of a patient and said second image detector being a face sensor for the creation of a 2D image, and including means for the creation of 3D images of a subvolume of a mandibular arch of the patient, which means create several 2D images from different directions and compute a 3D image therefrom using cone beam technology with associated reconstruction algorithms, and including adjustment means for adjusting at least one of said camera, ~~and/or~~ said second image detector, ~~and/or~~ said X-ray emitter ~~and/or~~ ~~a primary diaphragm and/or combinations thereof~~ such that said second image detector present in said camera is positioned in ~~an optical~~ ray path of said X-ray emitter, and including an installation for the creation of teleradiographic images with another image detector and, when said X-ray emitter is aligned for the creation of a teleradiographic image, said camera is disposed in the region of the ~~optical~~ ray path between said X-ray emitter and said image detector

of said installation for the creation of teleradiographic images and is radiolucent in said region.

29. **(Currently Amended)** An X-ray system including an X-ray emitter and an X-ray-sensitive camera for the creation of dental X-ray images, said camera including a first and a second image detector, said first image detector being provided for the creation of a panoramic tomographic image of upper and lower jawbones of a patient and said second image detector being a face sensor for the creation of a 2D image, and including means for the creation of 3D images of a subvolume of a mandibular arch of the patient, which means create several 2D images from different directions and compute a 3D image therefrom using cone beam technology with associated reconstruction algorithms, and including adjustment means for adjusting at least one of said camera, ~~and/or~~ said second image detector, ~~and/or~~ said X-ray emitter ~~and/or~~ a primary diaphragm ~~and/or~~ combinations thereof such that said second image detector present in said camera is positioned in an ~~optical~~ ray path of said X-ray emitter, and including an installation for the creation of teleradiographic images with another image detector and the path of adjustment is such that, when the X-ray emitter is aligned for the creation of a teleradiographic image, said camera is moved out of the optical path between said X-ray emitter and said

image detector of said installation for the creation of teleradiographic images.

30. **(Canceled)**

31. **(Currently Amended)** An X-ray-sensitive camera, comprising a casing, a first X-ray-sensitive image detector for the creation of a tomographic image in said casing, a second X-ray-sensitive image detector for the creation of plane images in said casing~~and wherein the two image detectors are disposed in a common casing, and said second image detector is disposed alongside said first image detector,~~ and including adjustment means for the purpose of causing, as desired, said first image detector or said second image detector to assume correct alignment relative to an X-ray emitter for the creation of the respective X-ray image, wherein said second image detector is disposed on a rear side of said first image detector.

32. **(Canceled)**

33. **(Currently Amended)** TheA camera as defined in claim 31, wherein said adjustment means and the two image detectors are housed in a common casing of said camera.

34. **(Currently Amended)** TheA camera as defined in claim 33, wherein said adjustment means are provided on said casing of said camera and in a region of connecting means for the attachment of said camera to a support and said camera is variably displaced, as an entity, relatively to said connecting means.

35. **(Canceled)**